Listing of Claims

1   Claim 1 (Currently Amended): A method of transferring data from a <u>database client</u>

2   ~~first end system~~ to a <u>database server</u> ~~second end system~~, wherein said <u>database client</u> ~~first end~~

3   ~~system~~ and said <u>database server</u> ~~second end system~~ are connected by a network, <u>wherein said</u>

4   <u>database server enables storage and access of said data in response to structured queries</u>

5   <u>received from said database client,</u> said method being performed in said <u>database client</u> ~~first~~

6   ~~end system~~, said method comprising:

7   determining in said <u>database client</u> ~~first end system~~ whether to send said data in a

8   compressed format<u>, wherein said data is contained in a database query to be sent to said</u>

9   <u>database server</u>;

10   if it is determined to send said data in said compressed format, compressing said data

11   to generate compressed data using a compression approach and sending said compressed data

12   to said <u>database server</u> ~~second end system~~ on said network; and

13   otherwise, sending said data in an uncompressed format to said <u>database server</u> ~~second~~

14   ~~end system~~ on said network,

15   wherein said determining checks a processing load ~~in a previous time duration~~ on said

16   <u>database server</u> ~~second end system~~, and determines not to send said data in said compressed

17   format if the processing load ~~in said previous time duration~~ on said <u>database server</u> ~~second~~

18   ~~end system~~ is determined to be more than a first threshold.

Claims 2 - 3: (Canceled)

1   Claim 4 (Original): The method of claim 1, wherein said determining checks a type

2   of said data and determines not to send said data in said compressed format if said type does

3   not lend to substantial data compression.

1   Claim 5 (Original): The method of claim 1, wherein said determining examines a size

2   of said data and determines not to send said data in said compressed format if said size is

3   small.

1   Claim 6 (Previously Presented): The method of claim 5, wherein said determining

2   further checks a speed of data transfer on said network and determines not to use said

3   compressed format if said speed is high.

1   Claim 7 (Canceled)

1   Claim 8 (Currently Amended): The method of claim 1, wherein said determining

2   further checks a speed of data transfer on said network and determines not to use said

3   compressed format if said speed is high,

4   wherein said speed is determined by including a first local time stamp in a packet sent

5   to said database server second end system, and receiving a second time stamp and a third time

6   stamp from said database server second end system at a time specified by a fourth local time

7   stamp, wherein said second time stamp indicates a time at which said packet is received in

8   said database server second end system and said third time stamp indicates a time at which

9   said packet is sent from said database serversecond end system, wherein said speed is

10   determined based on said first local time stamp, said second time stamp, said third time

11   stamp, and said fourth time stamp.

1   Claim 9-10: (Canceled)

1   Claim 11 (Previously Presented): A computer readable medium carrying one or more

2   sequences of instructions for causing a first end system to transfer a second end system,

3   wherein said first end system and said second end system are connected by a network,

4   wherein execution of said one or more sequences of instructions by one or more processors

5   contained in said first end system causes said one or more processors to perform the actions

6   of:

7   determining in said first end system whether to send said data in a compressed format;

8   if it is determined to send said data in said compressed format, compressing said data

9   to generate compressed data using a compression approach and sending said compressed data

10   to said second end system on said network; and

11   otherwise, sending said data in an uncompressed format to said second end system on

12   said network,

13   wherein said determining checks a processing load in a previous time duration on said

14   second end system, and determines not to send said data in said compressed format if the

15   processing load in said previous time duration on said second end system is determined to

16   be more than a first threshold.

1   Claims 12 - 13: (Canceled)

1   Claim 14 (Previously Presented): The computer readable medium of claim 11,

2   wherein said determining checks a type of said data and determines not to send said data in

3   said compressed format if said type does not lend to substantial data compression.

1   Claim 15 (Previously Presented): The computer readable medium of claim 11,

2   wherein said determining examines a size of said data and determines not to send said data

3   in said compressed format if said size is small.

1   Claim 16 (Previously Presented): The computer readable medium of claim 15,

2   wherein said determining further checks a speed of data transfer on said network and

3   determines not to use said compressed format if said speed is above a second threshold.

1   Claim 17 (Canceled)

1   Claim 18 (Previously Presented): The computer readable medium of claim 11,

2   wherein said determining further checks a speed of data transfer on said network and

3   determines not to use said compressed format if said speed is above a second threshold,

4   wherein said speed is determined by including a first local time stamp in a packet sent

5   to said second end system, and receiving a second time stamp and a third time stamp from

6   said second end system at a time specified by a fourth local time stamp, wherein said second

7   time stamp indicates a time at which said packet is received in said second end system and

8   said third time stamp indicates a time at which said packet is sent from said second end

9   system, wherein said speed is determined based on said first local time stamp, said second

10   time stamp, said third time stamp, and said fourth time stamp.

1   Claim 19 (Previously Presented): The computer readable medium of claim 11,

2   wherein said first end system is a database client, and said second end system is a database

3   server such that data is transferred from said database client to said database server

1   Claim 20 (Previously Presented): The computer readable medium of claim 11,

2   wherein said data comprises software instructions.

1   Claim 21 (Previously Presented): An apparatus for transferring data from a first end

2   system to a second end system, wherein said first end system and said second end system are

3   connected by a network, said apparatus being performed in said first end system, said

4   apparatus comprising:

5   means for determining in said first end system whether to send said data in a

6   compressed format;

7   means for compressing said data to generate compressed data using a compression

8   approach and means for sending said compressed data to said second end system on said

9   network if it is determined to send said data in said compressed format; and

10   means for sending said data in an uncompressed format to said second end system on

11   said network otherwise,

12   wherein said means for determining checks a processing load in a previous time

13   duration on said second end system, and determines not to send said data in said compressed

14   format if the processing load in said previous time duration on said second end system is

15   determined to be more than a third threshold.

1   Claims 22 - 23: (Canceled)

1   Claim 24 (Original): The apparatus of claim 21, wherein said means for determining

2   checks a type of said data and determines not to send said data in said compressed format if

3   said type does not lend to substantial data compression.

1   Claim 25 (Original): The apparatus of claim 21, wherein said means for determining

2   examines a size of said data and determines not to send said data in said compressed format

3   if said size is small.

1   Claim 26 (Previously Presented): The apparatus of claim 25, wherein said means for

2   determining further checks a speed of data transfer on said network and determines not to use

3   said compressed format if said speed is high.

1   Claim 27 (Original): The apparatus of claim 26, wherein said means for determining

2   determines said speed by sending an ICMP echo packet.

1   Claim 28 (Previously Presented): The apparatus of claim 21, wherein said means for

2   determining further checks a speed of data transfer on said network and determines not to use

3   said compressed format if said speed is high,

4   wherein said means for determining includes a first local time stamp in a packet sent

5   to said second end system, and receives a second time stamp and a third time stamp from said

6   second end system at a time specified by a fourth local time stamp, wherein said second time

7   stamp indicates a time at which said packet is received in said second end system and said

8   third time stamp indicates a time at which said packet is send from said second end system,

9   wherein said speed is determined based on said first local time stamp, said second time

10   stamp, said third time stamp, and said fourth time stamp.

1   Claim 29 (Currently Amended): The apparatus of claim 21, wherein said first end

2   system is a database <u>server</u> ~~client~~, and said second end system is a database<u>client</u> ~~server~~ such

3   that data is transferred from said database<u>server</u> ~~client~~ to said database <u>client</u> ~~server~~.

1   Claim 30 (Currently Amended): The method of claim 1, wherein said determining

2   checks said processing load in <u>a plurality of </u>corresponding previous time durations on said

3   <u>database server </u>~~second end system periodically~~ including at a first time instance and then at

4   a second time instance, and determines not to send data in said compressed format between

5   said first time instance and said second time instance if the processing load determined at said

6   first time instance is more than said first threshold.

1   Claim 31 (Currently Amended): The method of claim 30, wherein said determining

2   checks processing load on said <u>database client</u> ~~first end system~~ and determines to send said

3   data in said compressed format if the processing load on said <u>database server</u> ~~second end~~

4   ~~system~~ is not more than said first threshold and if the processing load on said <u>database client</u>

5   ~~first end system~~ is not more than a second threshold.

1   Claim 32 (Currently Amended): The computer readable medium of claim 11, wherein

2   said determining checks said processing load in corresponding previous time durations on

3   said second end system periodically including at a first time instance<u>,</u> ~~and~~ then at a second

4   time instance<u> and then at a third time instance</u>, and determines not to send data in said

5   compressed format between said first time instance and said second time instance if the

6   processing load at said first time instance is more than said first threshold<u>, wherein said</u>

7   <u>determining further determines to send data in said compressed format between said second</u>

8   <u>time instance and said third time instance if the processing load at said second time instance</u>

9   <u>is not more than said first threshold</u>.

1   Claim 33 (Previously Presented): The computer readable medium of claim 32,

2   wherein said determining checks processing load on said first end system and determines to

3   send said data in said compressed format if the processing load on said second end system

4   is not more than said first threshold and if the processing load on said first end system is not

5   more than a second threshold.

1   Claim 34 (Currently Amended): The apparatus of claim 21, wherein said means for

2   determining checks said processing load in corresponding previous time durations on said

3   second end system periodically including at a first time instance<u>,</u> ~~and~~ then at a second time

4   instance<u> and then at a third time instance</u>, and determines not to send data in said compressed

5   format between said first time instance and said second time instance if the processing load

6   at said first time instance is more than said first threshold<u>, wherein said means for</u>

7   <u>determining further determines to send data in said compressed format between said second</u>

8   time instance and said third time instance if the processing load at said second time instance

9   is not more than said first threshold.

1   Claim 35 (Previously Presented): The apparatus of claim 34, wherein said means for

2   determining checks processing load on said first end system and determines to send said data

3   in said compressed format if the processing load on said second end system is not more than

4   said first threshold and if the processing load on said first end system is not more than a

     second threshold.

1   Claim 36 (New): A computing system comprising:

2   a database server to enable storage and access of data using structured queries;

3   a network to provide connectivity to said database server; and

4   a second end system comprising:

5   a client block to generate a database query to be sent to said database server,

6   wherein said database query contains a data to be stored in said database

7   server;

8   a session layer block to establish a connection with said database server on

9   said network, wherein said connection enables sending of said database query

10   to said database server; and

11   a compression block to determine whether to send said data in a compressed

12   format,

13   wherein if it is determined to send said data in a compressed format, said compression

14   block to compress said data to generate compressed data and said session layer block to send

15   said compressed data on said connection to said database server,

16   otherwise, said session layer block to send said data in an uncompressed format on

17   said connection to said database server.

1   37 (New): The computing system of claim 36, wherein said compression block

2   determines a processing load on said database server in a corresponding previous time

3   duration at a plurality of time instances, and decides whether or not to send data in said

4   compressed format based on the processing load determined in a preceding time instance.

1   Claim 38 (New): The computing system of claim 37, wherein said second end system
2   comprises a database client.

1   Claim 39 (New): The computing system of claim 37, wherein said second end system
2   comprises another database server.